

A NEW SPECIES OF *WULFFIA* FROM ECUADOR.

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A series of collections of the family Asteraceae obtained from the Botanical Institute, University of Aarhus contains material of a remarkably distinct species of the genus *Wulffia*.

WULFFIA MACROCEPHALA H. Robinson, sp. nov.

Plantae fruticosae ad 1.2 m altae laxe mediocriter ramosae. Caules fulvo-virides subhexagonales leniter striati breviter appresse strigosi et strigulosi prope nodis densius strigosi. Folia opposita, petiolis 1.5-4.0 cm longis; laminae ovatae plerumque 10-16 cm longae et 4.0-8.5 cm latae base obtusae vel breviter acutae et breviter acuminatae margine remote distincte serratae apice anguste leniter acuminatae supra perparce appresse strigosae subglabrae subtus appresse breviter strigosae fere ad sed distincte supra basem ascendentiter trinervatae. Inflorescentiae plerumque unicapitatae, pedicellis 3-9 cm longis appresse strigosis superne densius strigosis. Capitula late campanulata ca. 1.2 mm alta vetusta ad 18 mm alta; squamae involucri ca. 20 herbaceae ultimate patentes subaequales oblongae vel breviter acutae 3-4 mm latae plerumque 11-12 mm longae vetustae ad 18 mm longae apice obtusae utrinque breviter strigosae; paleae oblongae ca. 10 mm longae ad 3 mm latae apice acutae et minute apiculatae extus striato-venulosae dense breviter strigosae. Flores radii ca. 11 in capitulo steriles; corolla rubro-aurantiaceae, tubis ca. 1.5 mm longis in partibus majoribus glabris apice minute hispidulo-spiculiferis, limbis ca. 15 mm longis et 4.5-5.0 mm latis apice minute trilobatis subtus margine dense minute hispidulo-spiculiferis et in medio minute puberulis. Flores disci ca. 60 in capitulo; corolla aurantiaceae ca. 8 mm longae, tubis 0.8-1.0 mm longis glabris, faucibus longe cylindrico-campanulatis 5.5-6.0 mm longis extus ubique minute hispidulo-spiculiferis, lobis ovato-triangularibus ca. 1 mm longis et 0.7 mm latis extus dense minute hispidulo-spiculiferis intus margine dense longe papillate fimbriatis in medio saepe perparce minute hispidulo-spiculiferis; filamenta in parte superiore ca. 0.8 mm longa; thecae 2.0-2.5 mm longae; appendices antherarum flavae ovatae ca. 0.5 mm longae et 0.45 mm latae extus in medio glanduliferae. Achaenia obpyramidata superne truncata 5-6 mm longa et 3 mm lata plerumque glabra in superficiis apicalibus sparse minute spiculifera, cicatricibus apicalibus centralibus ca. 0.4 mm latis vix prominulis; pappus nullus. Grana pollinis in diametro 30-32 μ m.

TYPE: ECUADOR: Pastaza: Lorocachi. Pica a Lagatococha a 1 hora siguiendo margen derecha del Río Curaray, sector sur del campamento militar. Alt. 200 m. (75°59'W 1°39'S). Junio 1, 1980. Shrub 1 m in primary forest. Inflorescence reddish orange. *J. Jaramillo, F. Coello & A. Freire 31746* (Holotype, AAU; isotype, US). PARATYPES: ECUADOR: Pastaza: Lorocachi. A 3 km, margen izquierda del Río Curaray, aguas abajo, al sur este del campamento militar. Bosque primario y secundario. Alt. 200 m. (75°58'W 1°38'S) Mayo 27, 1980. Vine in primary forest. Calyx green. Corolla pinkish red. Fruits green. *J. Jaramillo, F. Coello & A. Freire 31334* (AAU); Napo: Between Proyecto Buffalo and Proyecto INCRAE, about 12-13 km from Lago Agrio on via San Miguel. Cultivated disturbed area with some remnants of primary forest. Alt. 300. (77°53'W 0°10'N). April 4, 1980. Shrub 1.2 m. Flowers orange red. Stem and lower surface of leaves subsclabrous. *J. Brandbyge, E. Asanza C. & L. Reib 30444* (AAU, US).

A number of different species names have been used in the genus *Wulffia*, but previously known material all falls close to or into the concept of *Wulffia baccata* (L.f.) O.Kuntze which is often considered to be the only species in the genus. None of the previous material gives a hint of the degree of distinction seen in the present species from amazonian Ecuador. Actually, the large usually solitary heads and the elongate involucrel bracts caused some concern regarding the generic relationship. Nevertheless, the habit and leaf form, the striated apiculate paleae, and the form of the disk corollas with their often retrorse minute spicules closely match the condition in *Wulffia baccata*. The achenes with the broad truncate apices are clearly the type seen in the *Wulffia-Melanthera* relationship, and the pappus is lacking as in *Wulffia*. The dried achene surfaces in the new species show no evidence of the fleshiness that is characteristic of *W. baccata*, but collection data indicates the achenes are green and some softness may be discovered in living material. The reddish flowers of the new species are distinct from the yellowish form usually seen in *W. baccata*, but orange to reddish flowers have been noted in other material of the genus.



FLORA OF ECUADOR

collected by J. Jaramilla, F. Goll, & A. Freire

No. 3782

Asteraceae

Prov. PASTAZA

Ilorocachi, Pica a Lagatococha a 1 hora siguiendo
margen derecha del Rio Curapay, se. for sur. de
campamento militar. Alt. 2100 m. 7° 45' S, 78° 1' W.
Junio 1, 1980.

HERBARIUM OF THE UNIVERSITY OF CALIFORNIA

Shrub 1 m in primary forest. Infl. racemes reddish
orange.

Author: Robinson, Goll, & Freire. Illustration: G. Robinson. Photo: V. E. Krantz. Botanical illustration: G. Robinson.

Wulffia macrocephala H. Robinson, Holotype, Herbarium
Jutlandicum, Aarhus. Photo by Victor E. Krantz, Staff Photo-
grapher, National Museum of Natural History.